

# DETROIT TOOL AND FORGE CO.

Sockets . . . . . Square and Oval Backs

Braces . . . . . " " " "

Universal Joints " " " "

Taper Shanks . . " " " "

Nut Setter . . . . " " " "

Tee Handle . . . . " " " "

Ratchet Wrenches " " " "

Copper Points for Welding

Special Tools

656 SMITH AVE.

DETROIT, MICHIGAN

TRINITY 22222-3







DEAR READER:

ON PAGES 2 AND 3 OF THIS CATALOG YOU WILL SEE "SOMETHING NEW" IN THE DESIGN OF SOCKETS FOR HEX AND SQUARE NUTS AND BOLTS.

SURFACE DRIVE SOCKETS are of a design in which "area contact drive" is obtained, eliminating point or corner drive which causes binding and wedging action.

SURFACE DRIVE SOCKETS are of a design in which the distance "across flats" or "driving surfaces" is made to the exact size of the nut or bolt head "across flats"

--yet--

provides a maximum amount of clearance insuring easy "application" to nut or bolt head.

SURFACE DRIVE SOCKETS entirely eliminate the sharp corners which cause considerable breakage.

DETROIT TOOL & FORGE CO.

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656 SMITH AVENUE  
DETROIT, MICHIGAN

## RATCHET WRENCHES and Connectors

### HEAVY DUTY RATCHET WRENCHES



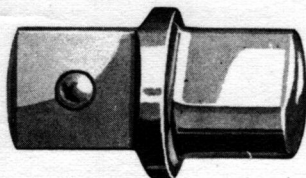
Stocked in all standard sizes. Heat treated.  
Hexagon Opening.

Cat. No.	Socket Opening	O. Diameter Head	Thickness Head	Overall Length
<b>HR-24</b>	$\frac{3}{4}$ "	$2\frac{1}{2}$ "	$\frac{3}{4}$ "	17"
<b>HR-26</b>	$\frac{13}{16}$ "	$2\frac{1}{2}$ "	$\frac{3}{4}$ "	17"
<b>HR-28</b>	$\frac{7}{8}$ "	$2\frac{1}{2}$ "	$\frac{3}{4}$ "	17"
<b>HR-30</b>	$\frac{15}{16}$ "	$2\frac{1}{2}$ "	$\frac{3}{4}$ "	17"
<b>HR-32</b>	1"	$2\frac{1}{2}$ "	$\frac{3}{4}$ "	17"

Square Opening.

<b>HSR-20</b>	$\frac{5}{8}$ "	$2\frac{1}{2}$ "	$\frac{3}{4}$ "	17"
<b>HSR-22</b>	$\frac{11}{16}$ "	$2\frac{1}{2}$ "	$\frac{3}{4}$ "	17"
<b>HSR-24</b>	$\frac{3}{4}$ "	$2\frac{1}{2}$ "	$\frac{3}{4}$ "	17"

Other sizes can be furnished on request.

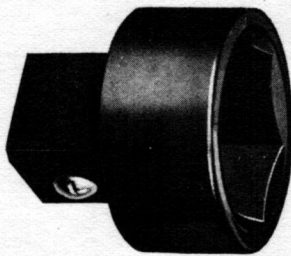


### PLUG CONNECTORS

Made of Chrome Nickel Steel. Heat treated. To allow the use of heavy duty ratchet wrench with various sizes of sockets.

Cat. No.	Overall Length	Diameter Ratchet End	Diameter Socket End
<b>PA-7</b>	$1\frac{1}{16}$ "	$\frac{1}{2}$ " sq.	$\frac{7}{16}$ "
<b>PA-9</b>	$1\frac{1}{4}$ "	$\frac{1}{2}$ " sq.	$\frac{9}{16}$ "
<b>PA-5</b>	$1\frac{5}{16}$ "	$\frac{1}{2}$ " sq.	$\frac{5}{8}$ "

### SOCKET CONNECTORS



$\frac{1}{2}$ " Square.

Cat. No.	Hexagon Opening	Overall Length	Diameter Ratchet End	Socket Length	Socket Depth
<b>SA-214</b>	$\frac{7}{16}$ "	$1\frac{1}{16}$ "	$\frac{1}{2}$ " sq.	$\frac{1}{2}$ "	$\frac{3}{8}$ "
<b>SA-216</b>	$\frac{1}{2}$ "	$1\frac{1}{16}$ "	$\frac{1}{2}$ " sq.	$\frac{1}{2}$ "	$\frac{3}{8}$ "
<b>SA-218</b>	$\frac{9}{16}$ "	$1\frac{1}{16}$ "	$\frac{1}{2}$ " sq.	$\frac{1}{2}$ "	$\frac{3}{8}$ "
<b>SA-220</b>	$\frac{5}{8}$ "	$1\frac{1}{16}$ "	$\frac{1}{2}$ " sq.	$\frac{1}{2}$ "	$\frac{3}{8}$ "
<b>SA-222</b>	$\frac{11}{16}$ "	$1\frac{1}{16}$ "	$\frac{1}{2}$ " sq.	$\frac{1}{2}$ "	$\frac{3}{8}$ "
<b>SA-224</b>	$\frac{3}{4}$ "	$1\frac{1}{16}$ "	$\frac{1}{2}$ " sq.	$\frac{1}{2}$ "	$\frac{3}{8}$ "

$\frac{3}{4}$ " Square.

<b>SA-326</b>	$\frac{13}{16}$ "	$1\frac{1}{2}$ "	$\frac{3}{4}$ " sq.	$\frac{3}{4}$ "	$\frac{9}{16}$ "
<b>SA-328</b>	$\frac{7}{8}$ "	$1\frac{1}{2}$ "	$\frac{3}{4}$ " sq.	$\frac{3}{4}$ "	$\frac{9}{16}$ "
<b>SA-332</b>	1"	$1\frac{1}{2}$ "	$\frac{3}{4}$ " sq.	$\frac{3}{4}$ "	$\frac{9}{16}$ "
<b>SA-334</b>	$1\frac{1}{16}$ "	$1\frac{1}{2}$ "	$\frac{3}{4}$ " sq.	$\frac{3}{4}$ "	$\frac{9}{16}$ "
<b>SA-336</b>	$1\frac{1}{8}$ "	$1\frac{1}{2}$ "	$\frac{3}{4}$ " sq.	$\frac{3}{4}$ "	$\frac{9}{16}$ "

### MEDIUM WEIGHT RATCHET WRENCH



Stocked in all standard sizes. Heat treated.  
Hexagon Opening.

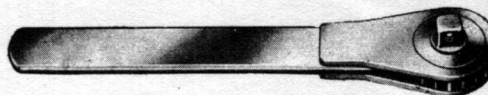
Cat. No.	Socket Opening	O. Diameter Head	Thickness Head	Overall Length
<b>MR-16</b>	$\frac{1}{2}$ "	$1\frac{1}{2}$ "	$\frac{5}{8}$ "	$9\frac{1}{2}$ "
<b>MR-18</b>	$\frac{9}{16}$ "	$1\frac{1}{2}$ "	$\frac{5}{8}$ "	$9\frac{1}{2}$ "
<b>MR-20</b>	$\frac{5}{8}$ "	$1\frac{1}{2}$ "	$\frac{5}{8}$ "	$9\frac{1}{2}$ "
<b>MR-22</b>	$\frac{11}{16}$ "	$1\frac{1}{2}$ "	$\frac{5}{8}$ "	$9\frac{1}{2}$ "

Square Opening.

<b>MSR-16</b>	$\frac{1}{2}$ "	$1\frac{1}{2}$ "	$\frac{5}{8}$ "	$9\frac{1}{2}$ "
<b>MSR-20</b>	$\frac{5}{8}$ "	$1\frac{1}{2}$ "	$\frac{5}{8}$ "	$9\frac{1}{2}$ "

Other sizes can be furnished on request.

### SMALL RATCHET WRENCH



Stocked in all standard openings, both hexagon and square.

Hexagon Opening.

Cat. No.	Socket Opening	O. Diameter Head	Thickness Head	Overall Length
<b>SR-12</b>	$\frac{3}{8}$ "	$1\frac{1}{8}$ "	$\frac{7}{16}$ "	6"
<b>SR-14</b>	$\frac{1}{2}$ "	$1\frac{1}{8}$ "	$\frac{7}{16}$ "	6"
<b>SR-16</b>	$\frac{1}{2}$ "	$1\frac{1}{8}$ "	$\frac{7}{16}$ "	6"
<b>SR-18</b>	$\frac{9}{16}$ "	$1\frac{1}{8}$ "	$\frac{7}{16}$ "	6"
<b>SR-20</b>	$\frac{5}{8}$ "	$1\frac{1}{8}$ "	$\frac{7}{16}$ "	6"

Square Opening.

<b>SSR-12</b>	$\frac{3}{8}$ "	$1\frac{1}{8}$ "	$\frac{7}{16}$ "	6"
<b>SSR-14</b>	$\frac{1}{2}$ "	$1\frac{1}{8}$ "	$\frac{7}{16}$ "	6"
<b>SSR-16</b>	$\frac{1}{2}$ "	$1\frac{1}{8}$ "	$\frac{7}{16}$ "	6"

Other sizes, either square or hexagon, can be furnished on request.

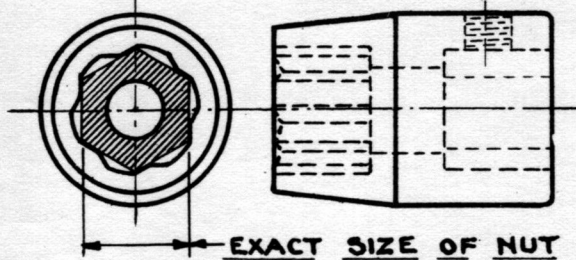
The gears, of Alloy Steel, specially heat treated, cannot fall out. They have the maximum number of teeth, thus increasing ratcheting efficiency.



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## SURFACE DRIVE SOCKET ~PAT. PEND.~



**"SURFACE DRIVE"**  
(MEANS LONGER WEAR)  
**"MORE CLEARANCE"**  
(MEANS EASY FIND)  
**"SHARP CORNERS ELIMINATED"**  
(MEANS LESS BREAKAGE)

### DIMENSIONS IN INCHES

Catalog Number	Hexagon Opening	Diameter Socket End	Diameter Handle End	Socket Length	Handle Opening
<b>2 1/16" Handle Broaching</b>					
DIS-712	3/8"	9/16"	3/4"	1 1/2"	7/16"
DIS-714	7/16"	5/8"	3/4"	1 1/2"	7/16"
DIS-716	1/2"	11/16"	7/8"	1 1/2"	7/16"
DIS-718	1 1/8"	3/4"	7/8"	1 1/2"	7/16"
DIS-719	1 1/2"	1 1/8"	1"	1 1/2"	7/16"
DIS-720	5/8"	7/8"	1"	1 1/2"	7/16"

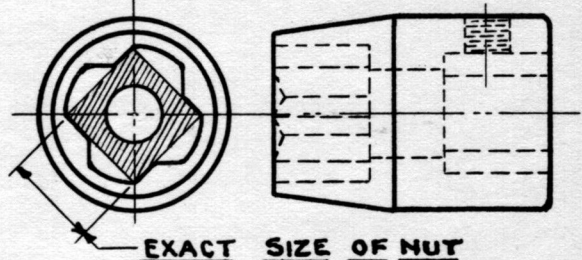
### 2 1/8" Handle Broaching

DIS-910	1/8"	1/2"	1 1/8"	1 1/2"	9/16"
DIS-912	3/8"	9/16"	1 1/8"	1 1/2"	9/16"
DIS-914	1/2"	5/8"	1 1/8"	1 1/2"	9/16"
DIS-916	1 1/2"	1 1/8"	1 1/8"	1 1/2"	9/16"
DIS-918	1 1/8"	1 1/8"	1"	1 1/2"	9/16"
DIS-919	1 1/2"	7/8"	1"	1 1/2"	9/16"
DIS-920	5/8"	1 1/8"	1"	1 1/2"	9/16"

### 3 1/8" Handle Broaching

DIS-516	1/2"	3/4"	1"	1 1/2"	5/8"
DIS-518	1 1/8"	1 1/8"	1"	1 1/2"	5/8"
DIS-519	1 1/2"	7/8"	1"	1 1/2"	5/8"
DIS-520	1 1/8"	1 1/8"	1"	1 1/2"	5/8"
DIS-522	1 1/2"	1 1/8"	1 1/8"	1 1/2"	5/8"
DIS-524	3/4"	1 1/8"	1 1/8"	1 1/2"	5/8"
DIS-525	1 1/8"	1 1/8"	1 1/8"	1 1/2"	5/8"
DIS-526	1 1/8"	1 1/8"	1 1/8"	1 1/2"	5/8"
DIS-528	1 1/8"	1 1/4"	1 1/4"	1 1/2"	5/8"
DIS-530	1 1/8"	1 3/8"	1 1/4"	1 1/2"	5/8"
DIS-531	1 1/2"	1 1/2"	1 1/4"	1 1/2"	5/8"
DIS-532	1"	1 1/2"	1 1/4"	1 1/2"	5/8"
DIS-534	1 1/8"	1 5/8"	1 3/8"	2"	5/8"
DIS-536	1 1/8"	1 5/8"	1 3/8"	2"	5/8"
DIS-540	1 1/4"	1 3/4"	1 3/8"	2"	5/8"

## SURFACE DRIVE SOCKET ~PAT. PEND.~



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(MEANS LESS BREAKAGE)

### DIMENSIONS IN INCHES

Catalog Number	Square Opening	Diameter Socket End	Diameter Handle End	Socket Length	Handle Opening
<b>7 1/16" Handle Broaching</b>					
DISS-712	3/8"	5/8"	3/4"	1 1/2"	7/16"
DISS-714	7/16"	3/4"	3/4"	1 1/2"	7/16"
DISS-716	1/2"	7/8"	7/8"	1 1/2"	7/16"
DISS-718	1 1/8"	1 1/8"	1 1/8"	1 1/2"	7/16"
DISS-719	1 1/2"	1"	1"	1 1/2"	7/16"
DISS-720	5/8"	1 1/16"	1 1/16"	1 1/2"	7/16"

### 2 1/8" Handle Broaching

DISS-910	1/8"	9/16"	1"	1 1/2"	9/16"
DISS-912	3/8"	5/8"	1"	1 1/2"	9/16"
DISS-914	1/2"	3/4"	1"	1 1/2"	9/16"
DISS-916	1 1/2"	7/8"	1"	1 1/2"	9/16"
DISS-918	1 1/8"	1"	1"	1 1/2"	9/16"
DISS-919	1 1/2"	1 1/16"	1 1/16"	1 1/2"	9/16"
DISS-920	5/8"	1 1/8"	1 1/8"	1 1/2"	9/16"

### 3 1/8" Handle Broaching

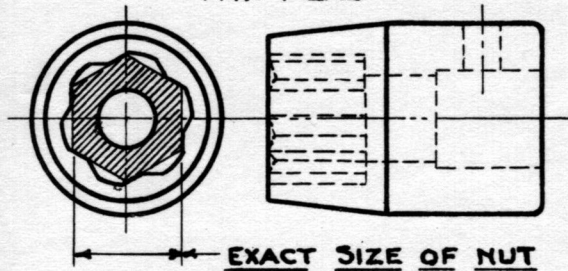
DISS-522	1 1/8"	1 1/4"	1 1/8"	1 1/2"	5/8"
DISS-524	3/4"	1 3/8"	1 1/8"	1 1/2"	5/8"
DISS-525	1 1/8"	1 1/8"	1 1/8"	1 1/2"	5/8"
DISS-526	1 1/8"	1 1/2"	1 1/8"	1 1/2"	5/8"
DISS-528	7/8"	1 1/16"	1 1/8"	1 1/2"	5/8"
DISS-530	1 1/8"	1 11/16"	1 3/8"	1 1/2"	5/8"
DISS-531	1 1/2"	1 3/4"	1 3/8"	1 1/2"	5/8"
DISS-532	1"	1 3/4"	1 3/8"	1 1/2"	5/8"
DISS-534	1 1/16"	2"	1 1/2"	2"	5/8"
DISS-536	1 1/8"	2"	1 1/2"	2"	5/8"
DISS-540	1 1/4"	2 1/8"	1 3/4"	2"	5/8"



# DETROIT TOOL & FORGE CO.

656 SMITH AVENUE

## SURFACE DRIVE SOCKET ~PAT. PEND~



**"SURFACE DRIVE"**  
MEANS LONGER WEAR  
**"MORE CLEARANCE"**  
MEANS EASY FIND  
**"SHARP CORNERS ELIMINATED"**  
MEANS LESS BREAKAGE

### $\frac{3}{8}$ Square Handle Broaching

Catalog Number	DIMENSIONS IN INCHES				
	Hexagon Opening	Diameter Socket End	Diameter Handle End	Socket Length	Handle Opening
DCS-312	$\frac{3}{8}$ "	.530	$\frac{11}{16}$ "	$1\frac{1}{2}$ "	$\frac{3}{8}$ "
DCS-314	$\frac{7}{16}$ "	.609	$\frac{11}{16}$ "	$1\frac{1}{2}$ "	$\frac{3}{8}$ "
DCS-316	$\frac{1}{2}$ "	.703	$\frac{3}{4}$ "	$1\frac{1}{2}$ "	$\frac{3}{8}$ "
DCS-318	$\frac{9}{16}$ "	.781	$\frac{13}{16}$ "	$1\frac{1}{2}$ "	$\frac{3}{8}$ "
DCS-320	$\frac{5}{8}$ "	.859	$\frac{7}{8}$ "	$1\frac{1}{2}$ "	$\frac{3}{8}$ "

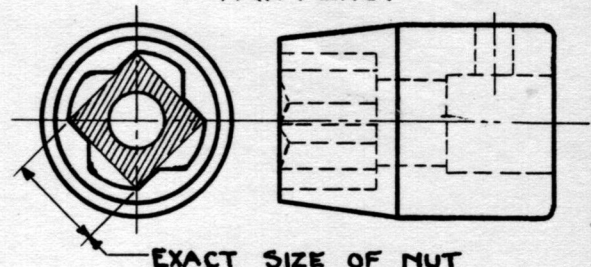
### $\frac{1}{2}$ Square Handle Broaching

DCS-414	$\frac{1}{2}$ "	.609	$\frac{11}{16}$ "	$1\frac{1}{2}$ "	$\frac{1}{2}$ "
DCS-416	$\frac{1}{2}$ "	.731	$\frac{11}{16}$ "	$1\frac{1}{2}$ "	$\frac{1}{2}$ "
DCS-418	$\frac{9}{16}$ "	.796	$\frac{11}{16}$ "	$1\frac{1}{2}$ "	$\frac{1}{2}$ "
DCS-419	$\frac{5}{8}$ "	.847	1"	$1\frac{1}{2}$ "	$\frac{1}{2}$ "
DCS-420	$\frac{5}{8}$ "	.873	1"	$1\frac{1}{2}$ "	$\frac{1}{2}$ "
DCS-422	$\frac{11}{16}$ "	.952	$1\frac{1}{16}$ "	$1\frac{1}{2}$ "	$\frac{1}{2}$ "
DCS-424	$\frac{3}{4}$ "	1.033	$1\frac{1}{8}$ "	$1\frac{1}{2}$ "	$\frac{1}{2}$ "
DCS-425	$\frac{23}{32}$ "	1.100	$1\frac{3}{16}$ "	$1\frac{1}{2}$ "	$\frac{1}{2}$ "
DCS-426	$\frac{11}{16}$ "	1.134	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	$\frac{1}{2}$ "
DCS-428	$\frac{7}{8}$ "	1.225	$1\frac{5}{8}$ "	$1\frac{1}{2}$ "	$\frac{1}{2}$ "
DCS-430	$\frac{15}{16}$ "	1.312	$1\frac{7}{8}$ "	$1\frac{3}{4}$ "	$\frac{1}{2}$ "
DCS-431	$\frac{31}{32}$ "	1.375	$1\frac{1}{8}$ "	$1\frac{3}{4}$ "	$\frac{1}{2}$ "
DCS-432	1"	1.406	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "	$\frac{1}{2}$ "
DCS-434	$1\frac{1}{16}$ "	1.500	$1\frac{1}{8}$ "	2"	$\frac{1}{2}$ "

### $\frac{5}{8}$ Square Handle Broaching

DCS-530	$\frac{11}{16}$ "	1.312	$1\frac{1}{8}$ "	$1\frac{3}{4}$ "	$\frac{5}{8}$ "
DCS-531	$\frac{31}{32}$ "	1.375	$1\frac{1}{8}$ "	$1\frac{3}{4}$ "	$\frac{5}{8}$ "
DCS-532	1"	1.406	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "	$\frac{5}{8}$ "
DCS-534	$1\frac{1}{16}$ "	1.500	$1\frac{3}{8}$ "	2"	$\frac{5}{8}$ "
DCS-536	$1\frac{1}{8}$ "	1.593	$1\frac{11}{16}$ "	2"	$\frac{5}{8}$ "
DCS-538	$1\frac{1}{4}$ "	1.655	$1\frac{3}{4}$ "	2"	$\frac{5}{8}$ "
DCS-540	$1\frac{1}{2}$ "	1.718	$1\frac{11}{8}$ "	2"	$\frac{5}{8}$ "
DCS-544	$1\frac{3}{8}$ "	1.906	2"	$2\frac{1}{4}$ "	$\frac{5}{8}$ "
DCS-546	$1\frac{1}{2}$ "	1.968	$2\frac{1}{8}$ "	$2\frac{1}{4}$ "	$\frac{5}{8}$ "
DCS-548	$1\frac{1}{2}$ "	2.031	$2\frac{1}{8}$ "	$2\frac{3}{8}$ "	$\frac{5}{8}$ "

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### $\frac{1}{2}$ Square Handle Broaching

Catalog Number	DIMENSIONS IN INCHES				
	Square Opening	Diameter Socket End	Diameter Handle End	Socket Length	Handle Opening
DCSS-412	$\frac{3}{8}$ "	.671	$\frac{15}{16}$ "	$1\frac{1}{2}$ "	$\frac{1}{2}$ "
DCSS-414	$\frac{7}{16}$ "	.765	$\frac{15}{16}$ "	$1\frac{1}{2}$ "	$\frac{1}{2}$ "
DCSS-416	$\frac{1}{2}$ "	.875	$\frac{15}{16}$ "	$1\frac{1}{2}$ "	$\frac{1}{2}$ "
DCSS-418	$\frac{9}{16}$ "	1.032	$1\frac{1}{8}$ "	$1\frac{1}{2}$ "	$\frac{1}{2}$ "
DCSS-420	$\frac{5}{8}$ "	1.062	$1\frac{1}{8}$ "	$1\frac{1}{2}$ "	$\frac{1}{2}$ "
DCSS-422	$\frac{11}{16}$ "	1.156	$1\frac{1}{4}$ "	$1\frac{5}{8}$ "	$\frac{1}{2}$ "
DCSS-424	$\frac{3}{4}$ "	1.250	$1\frac{3}{8}$ "	$1\frac{5}{8}$ "	$\frac{1}{2}$ "
DCSS-426	$\frac{13}{16}$ "	1.375	$1\frac{1}{2}$ "	$1\frac{5}{8}$ "	$\frac{1}{2}$ "
DCSS-428	$\frac{7}{8}$ "	1.562	$1\frac{5}{8}$ "	$1\frac{5}{8}$ "	$\frac{1}{2}$ "
DCSS-432	1"	1.656	$1\frac{3}{4}$ "	$1\frac{3}{4}$ "	$\frac{1}{2}$ "

### $\frac{5}{8}$ Square Handle Broaching

DCSS-532	1"	1.656	$1\frac{3}{4}$ "	$1\frac{3}{4}$ "	$\frac{5}{8}$ "
DCSS-534	$1\frac{1}{16}$ "	1.844	2"	$1\frac{3}{4}$ "	$\frac{5}{8}$ "
DCSS-544	$1\frac{1}{4}$ "	2.109	$2\frac{1}{4}$ "	2"	$\frac{5}{8}$ "

## EXTRA DEPTH HEXAGON SOCKETS

### $\frac{1}{2}$ Square Handle Broaching

Catalog Number	DIMENSIONS IN INCHES				
	Hexagon Opening	Diameter Socket End	Diameter Handle End	Socket Length	Handle Opening
DCS-1416	$\frac{1}{2}$ "	$\frac{3}{4}$ "	1"	$3\frac{1}{4}$ "	$\frac{1}{2}$ "
DCS-1418	$\frac{9}{16}$ "	$\frac{13}{16}$ "	1"	$3\frac{1}{4}$ "	$\frac{1}{2}$ "
DCS-1420	$\frac{5}{8}$ "	$\frac{7}{8}$ "	1"	$3\frac{1}{4}$ "	$\frac{1}{2}$ "
DCS-1422	$\frac{11}{16}$ "	$1\frac{1}{16}$ "	1"	$3\frac{1}{4}$ "	$\frac{1}{2}$ "
DCS-1424	$\frac{3}{4}$ "	$1\frac{1}{8}$ "	1"	$3\frac{1}{4}$ "	$\frac{1}{2}$ "
DCS-1428	$\frac{7}{8}$ "	$1\frac{1}{4}$ "	1"	$3\frac{1}{4}$ "	$\frac{1}{2}$ "
DCS-1430	$\frac{15}{16}$ "	$1\frac{3}{8}$ "	1"	$3\frac{1}{4}$ "	$\frac{1}{2}$ "
DCS-1432	1"	$1\frac{1}{2}$ "	$1\frac{1}{4}$ "	$3\frac{1}{4}$ "	$\frac{1}{2}$ "

### $\frac{5}{8}$ Square Handle Broaching

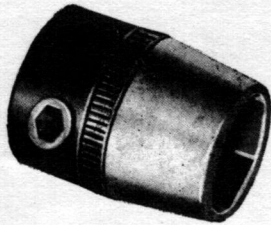
DCS-1530	$\frac{11}{16}$ "	$1\frac{3}{8}$ "	$1\frac{3}{8}$ "	$3\frac{1}{4}$ "	$\frac{5}{8}$ "
DCS-1534	$1\frac{1}{16}$ "	$1\frac{1}{2}$ "	$1\frac{1}{2}$ "	$3\frac{1}{4}$ "	$\frac{5}{8}$ "
DCS-1536	$1\frac{1}{8}$ "	$1\frac{5}{8}$ "	$1\frac{5}{8}$ "	$3\frac{1}{2}$ "	$\frac{5}{8}$ "



# DETROIT TOOL & FORGE CO.

656 SMITH AVENUE  
DETROIT, MICHIGAN

## SOCKETS



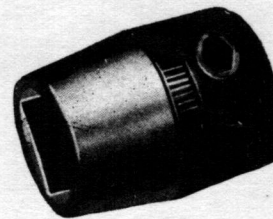
### HEXAGON SOCKETS

Chrome Nickel Steel, heat treated. Designed for efficiency and service.

Set screw included with socket.

Made in all standard sizes and to fit handles as shown in table below.

Catalog Number	DIMENSIONS IN INCHES				
	Hexagon Opening	Diameter Socket End	Diameter Handle End	Socket Length	Handle Opening
<b>7/16" Handle Broaching</b>					
IS-712	3/8"	9/16"	3/4"	1 1/2"	7/16"
IS-714	1/2"	5/8"	3/4"	1 1/2"	7/16"
IS-716	1/2"	1 1/16"	7/8"	1 1/2"	7/16"
IS-718	9/16"	3/4"	7/8"	1 1/2"	7/16"
IS-719	1 1/8"	1 1/8"	1"	1 1/2"	7/16"
IS-720	5/8"	7/8"	1"	1 1/2"	7/16"
<b>2" Handle Broaching</b>					
IS-910	5/16"	1/2"	1 1/8"	1 1/2"	9/16"
IS-912	3/8"	9/16"	1 1/8"	1 1/2"	9/16"
IS-914	1/2"	5/8"	1 1/8"	1 1/2"	9/16"
IS-916	1/2"	1 1/16"	1 1/8"	1 1/2"	9/16"
IS-918	1 1/8"	1 1/8"	1"	1 1/2"	9/16"
IS-919	1 1/8"	7/8"	1"	1 1/2"	9/16"
IS-920	5/8"	1 1/8"	1"	1 1/2"	9/16"
<b>5/8" Handle Broaching</b>					
IS-516	1/2"	3/4"	1"	1 1/2"	5/8"
IS-518	1 1/8"	1 1/8"	1"	1 1/2"	5/8"
IS-519	1 1/8"	7/8"	1"	1 1/2"	5/8"
IS-520	1 1/8"	1 1/8"	1"	1 1/2"	5/8"
IS-522	1 1/8"	1 1/8"	1 1/16"	1 1/2"	5/8"
IS-524	3/4"	1 1/8"	1 1/8"	1 1/2"	5/8"
IS-525	1 1/8"	1 1/8"	1 1/8"	1 1/2"	5/8"
IS-526	1 1/8"	1 1/8"	1 1/8"	1 1/2"	5/8"
IS-528	1 1/8"	1 1/4"	1 1/4"	1 1/2"	5/8"
IS-530	1 1/8"	1 3/8"	1 1/4"	1 1/2"	5/8"
IS-531	1 1/8"	1 1/2"	1 1/4"	1 1/2"	5/8"
IS-532	1"	1 1/2"	1 1/4"	1 1/2"	5/8"
IS-534	1 1/8"	1 5/8"	1 3/8"	2"	5/8"
IS-536	1 1/8"	1 5/8"	1 3/8"	2"	5/8"
IS-540	1 1/4"	1 3/4"	1 3/8"	2"	5/8"



### SQUARE SOCKETS

Chrome Nickel Steel, heat treated. Small for greater accessibility, yet strong and durable.

Set screw included with the socket.

Made in all standard sizes and to fit handles as shown in table below.

Catalog Number	DIMENSIONS IN INCHES				
	Square Opening	Diameter Socket End	Diameter Handle End	Socket Length	Handle Opening
<b>7/16" Handle Broaching</b>					
ISS-712	3/8"	5/8"	3/4"	1 1/2"	7/16"
ISS-714	1/2"	3/4"	3/4"	1 1/2"	7/16"
ISS-716	1/2"	7/8"	7/8"	1 1/2"	7/16"
ISS-718	9/16"	1 1/8"	1 1/8"	1 1/2"	7/16"
ISS-719	1 1/8"	1"	1"	1 1/2"	7/16"
ISS-720	5/8"	1 1/16"	1 1/16"	1 1/2"	7/16"
<b>9/16" Handle Broaching</b>					
ISS-910	5/16"	9/16"	1"	1 1/2"	9/16"
ISS-912	3/8"	5/8"	1"	1 1/2"	9/16"
ISS-914	1/2"	3/4"	1"	1 1/2"	9/16"
ISS-916	1/2"	7/8"	1"	1 1/2"	9/16"
ISS-918	1 1/8"	1"	1"	1 1/2"	9/16"
ISS-919	1 1/8"	1 1/16"	1 1/16"	1 1/2"	9/16"
ISS-920	5/8"	1 1/8"	1 1/8"	1 1/2"	9/16"
<b>5/8" Handle Broaching</b>					
ISS-522	1 1/8"	1 1/4"	1 1/8"	1 1/2"	5/8"
ISS-524	3/4"	1 3/8"	1 1/8"	1 1/2"	5/8"
ISS-525	1 1/8"	1 1/8"	1 1/8"	1 1/2"	5/8"
ISS-526	1 1/8"	1 1/2"	1 1/8"	1 1/2"	5/8"
ISS-528	7/8"	1 1/8"	1 1/8"	1 1/2"	5/8"
ISS-530	1 1/8"	1 1/4"	1 3/8"	1 1/2"	5/8"
ISS-531	1 1/8"	1 3/4"	1 3/8"	1 1/2"	5/8"
ISS-532	1"	1 3/4"	1 3/8"	1 1/2"	5/8"
ISS-534	1 1/8"	2"	1 1/2"	2"	5/8"
ISS-536	1 1/8"	2"	1 1/2"	2"	5/8"
ISS-540	1 1/4"	2 1/8"	1 3/4"	2"	5/8"



# DETROIT TOOL & FORGE CO.

656 SMITH AVENUE  
DETROIT, MICHIGAN

## UNIVERSAL JOINTS



The use of these Universal Joints in connection with regular handles permits working at 90° angles.

Chrome Nickel Steel, Heat Treated.

Built thin, for hard-to-reach places, yet sturdy and strong.

Set screws furnished on request.



Catalog Number	Socket Opening	Overall Length	Diameter Socket End	Shank Opening
IFS-912	3/8"	2 3/8"	5/8"	9/16"
IFS-914	1/2"	2 3/8"	1 1/8"	9/16"
IFS-916	5/8"	2 3/8"	1 3/8"	9/16"



IFS-918	3/4"	2 5/8"	3/4"	9/16"
IFS-920	7/8"	2 5/8"	1 1/8"	9/16"



IFS-522	1 1/8"	2 3/4"	1 1/8"	5/8"
IFS-524	1 1/4"	2 3/4"	1 1/4"	5/8"
IFS-526	1 1/2"	2 3/4"	1 1/2"	5/8"

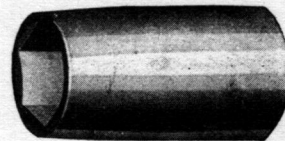
## SCREW DRIVER SOCKETS



Can be used for all shanks, wire or wire.

Catalog Number	Width of Point	Thickness of Point	Diameter Stock	Handle Opening	Length Overall
SDS-912	3/8"	.046"	3/4"	9/16"	2 1/2"
SDS-530	1/2"	1/8"	1"	5/8"	1 1/2"

## EXTRA DEPTH HEX. SOCKETS



Handle Broaching

Catalog Number	DIMENSIONS IN INCHES				
	Hexagon Opening	Diameter Socket End	Diameter Handle End	Socket Length	Handle Opening
IS-1916	1/2"	3/4"	1"	3 1/4"	9/16"
IS-1918	5/8"	1 1/8"	1"	3 1/4"	9/16"
IS-1920	3/4"	1 1/4"	1"	3 1/4"	9/16"



Handle Broaching

IS-1522	1 1/8"	1 1/8"	1"	3 1/4"	5/8"
IS-1524	1 1/4"	1 1/8"	1"	3 1/4"	5/8"
IS-1526	1 1/2"	1 1/8"	1"	3 1/4"	5/8"
IS-1528	1 3/4"	1 1/4"	1"	3 1/4"	5/8"
IS-1530	1 5/8"	1 3/8"	1"	3 1/4"	5/8"
IS-1532	1 7/8"	1 1/2"	1 1/4"	3 1/4"	5/8"
IS-1534	2"	1 5/8"	1 1/4"	3 1/4"	5/8"
IS-1536	2 1/8"	1 3/4"	1 1/4"	3 1/4"	5/8"

## SOCKET FOR ALEMITE FITTING



Catalog Number	DIMENSIONS IN INCHES			
	Diameter Alemite End	Diameter Handle End	Overall Length	Handle Opening
AS-16	5/8"	7/8"	1 1/4"	9/16"

## WING NUT SOCKET



Catalog Number	DIMENSIONS IN INCHES			
	Diameter Wing End	Diameter Handle End	Overall Length	Handle Opening
KS-16	1 1/4"	7/8"	1 3/4"	9/16"

We manufacture a complete range of garage and service station tools and tool boxes, of any size and quantity.

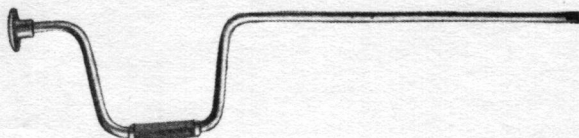


# DETROIT TOOL & FORGE CO.

656 SMITH AVENUE  
DETROIT, MICHIGAN

## HANDLES

### BRACE HANDLES



Strong, heavy construction. Built with all metal grip or knob which will not wear through or break.

The extra large, heavy brace handles are equipped with a specially treated, specially designed metal and wood combination grip or knob to keep down weight.

#### Wire Diameter

Catalog Number	Overall Length	Shank Length	Sweep	Diameter Stock
IB-476	14"	6"	4"	$\frac{7}{16}$ "
IB-4712	20"	12"	4"	$\frac{7}{16}$ "
IB-4716	24"	16"	4"	$\frac{7}{16}$ "

#### Wire Diameter

IB-593	13"	3"	5"	$\frac{9}{16}$ "
IB-596	16"	6"	5"	$\frac{9}{16}$ "
IB-599	19"	9"	5"	$\frac{9}{16}$ "
IB-5912	22"	12"	5"	$\frac{9}{16}$ "
IB-5916	26"	16"	5"	$\frac{9}{16}$ "
IB-5920	30"	20"	5"	$\frac{9}{16}$ "

#### Wire Diameter

IB-656	17"	6"	6"	$\frac{5}{8}$ "
IB-6512	23"	12"	6"	$\frac{5}{8}$ "
IB-6516	27"	16"	6"	$\frac{5}{8}$ "

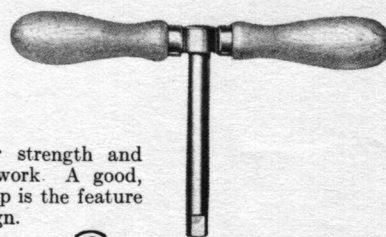
### OFFSET HANDLES



Catalog Number	Handle Length	Clearance Under Handle	Diameter Stock
OH-912	12"	1 1/4"	$\frac{9}{16}$ "
OH-512	12"	1 1/4"	$\frac{5}{8}$ "

### TEE HANDLES

#### Wood File Handle Over Metal Cross Handle



Built for strength and for heavy work. A good, constant grip is the feature of this design.

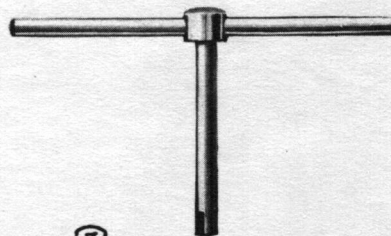
#### Wire Diameter

Catalog Number	Shank Length	Shank Diameter	Handle Length	Handle Diameter	Wood File Handle Length
WT-96	6"	$\frac{9}{16}$ "	8"	$\frac{7}{16}$ "	10"
WT-912	12"	$\frac{9}{16}$ "	8"	$\frac{7}{16}$ "	10"
WT-918	18"	$\frac{9}{16}$ "	8"	$\frac{7}{16}$ "	10"

#### Wire Diameter

WT-56	6"	$\frac{5}{8}$ "	8"	$\frac{7}{16}$ "	10"
WT-512	12"	$\frac{5}{8}$ "	8"	$\frac{7}{16}$ "	10"
WT-518	18"	$\frac{5}{8}$ "	8"	$\frac{7}{16}$ "	10"

### METAL HANDLE TEE WRENCH



#### Handle Diameter

Catalog Number	Shank Length	Shank Diameter	Handle Length	Handle Diameter
IT-76	6"	$\frac{7}{16}$ "	8"	$\frac{3}{8}$ "
IT-712	12"	$\frac{7}{16}$ "	8"	$\frac{3}{8}$ "

#### Handle Diameter

IT-96	6"	$\frac{9}{16}$ "	10"	$\frac{1}{2}$ "
IT-912	12"	$\frac{9}{16}$ "	10"	$\frac{1}{2}$ "
IT-918	18"	$\frac{9}{16}$ "	10"	$\frac{1}{2}$ "

#### Handle Diameter

IT-56	6"	$\frac{5}{8}$ "	12"	$\frac{9}{16}$ "
IT-512	12"	$\frac{5}{8}$ "	12"	$\frac{9}{16}$ "
IT-518	18"	$\frac{5}{8}$ "	12"	$\frac{9}{16}$ "



# DETROIT TOOL & FORGE CO.

656 SMITH AVENUE  
DETROIT, MICHIGAN

## SHANKS

### TAPER SHANKS



Chrome Nickel Steel — Oil Hardened



Shank

Cat. No.	No. Taper	Shank Length	Overall Length	Taper Length	Shank Diameter
911	1	1"	3 $\frac{9}{16}$ "	2 $\frac{3}{16}$ "	$\frac{9}{16}$ "
913	1	3"	5 $\frac{9}{16}$ "	2 $\frac{3}{16}$ "	$\frac{9}{16}$ "
916	1	6"	8 $\frac{9}{16}$ "	2 $\frac{3}{16}$ "	$\frac{9}{16}$ "
921	2	1"	4 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	$\frac{9}{16}$ "
923	2	3"	6 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	$\frac{9}{16}$ "
926	2	6"	9 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	$\frac{9}{16}$ "
931	3	1"	4 $\frac{7}{8}$ "	3 $\frac{7}{8}$ "	$\frac{9}{16}$ "
933	3	3"	6 $\frac{7}{8}$ "	3 $\frac{7}{8}$ "	$\frac{9}{16}$ "
936	3	6"	9 $\frac{7}{8}$ "	3 $\frac{7}{8}$ "	$\frac{9}{16}$ "



Shank

511	1	1"	3 $\frac{9}{16}$ "	2 $\frac{3}{16}$ "	$\frac{5}{8}$ "
513	1	3"	5 $\frac{9}{16}$ "	2 $\frac{3}{16}$ "	$\frac{5}{8}$ "
516	1	6"	8 $\frac{9}{16}$ "	2 $\frac{3}{16}$ "	$\frac{5}{8}$ "
521	2	1"	4 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	$\frac{5}{8}$ "
523	2	3"	6 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	$\frac{5}{8}$ "
526	2	6"	9 $\frac{1}{8}$ "	3 $\frac{1}{8}$ "	$\frac{5}{8}$ "
531	3	1"	4 $\frac{7}{8}$ "	3 $\frac{7}{8}$ "	$\frac{5}{8}$ "
533	3	3"	6 $\frac{7}{8}$ "	3 $\frac{7}{8}$ "	$\frac{5}{8}$ "
536	3	6"	9 $\frac{7}{8}$ "	3 $\frac{7}{8}$ "	$\frac{5}{8}$ "

### BIT BRACE SHANKS



Chrome Nickel Steel — Oil Hardened



Shank

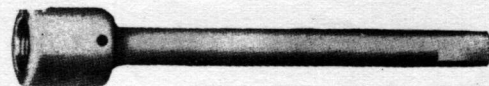
Cat No.	Shank Length	Overall Length	Shank Diameter
9B-3	1 $\frac{1}{2}$ "	3"	$\frac{9}{16}$ "
9B-5	3 $\frac{1}{2}$ "	5"	$\frac{9}{16}$ "
9B-7	5 $\frac{1}{2}$ "	7"	$\frac{9}{16}$ "
9B-10	8 $\frac{3}{4}$ "	10 $\frac{1}{4}$ "	$\frac{9}{16}$ "
9B-18	16 $\frac{1}{2}$ "	18"	$\frac{9}{16}$ "



Shank

5B-3	1 $\frac{1}{2}$ "	3"	$\frac{5}{8}$ "
5B-5	3 $\frac{1}{2}$ "	5"	$\frac{5}{8}$ "
5B-7	5 $\frac{1}{2}$ "	7"	$\frac{5}{8}$ "
5B-10	8 $\frac{3}{4}$ "	10 $\frac{1}{4}$ "	$\frac{5}{8}$ "
5B-18	16 $\frac{1}{2}$ "	18"	$\frac{5}{8}$ "

### SPECIAL SHANKS



For use as adapters with Ingersoll-Rand, Chicago Pneumatic and other air machines where taper socket is not built into the machine.

To be attached directly to the threaded spindle.

These adapters can be made for any electric machine.

Send blueprints of special attachments required.

### CHICAGO PNEUMATIC TOOL

R. H. and L. H., 16 Pitch, V Thread

Cat No. R.H.-L.H.†	Shank Length	Overall Length	Shank Diameter	Head Diameter	Thread Diameter
CNK-91	1"	2 $\frac{1}{4}$ "	$\frac{9}{16}$ "	1 $\frac{3}{16}$ "	.710
CNK-93	3"	4 $\frac{1}{4}$ "	$\frac{9}{16}$ "	1 $\frac{3}{16}$ "	.710
CNK-96	6"	7 $\frac{1}{4}$ "	$\frac{9}{16}$ "	1 $\frac{3}{16}$ "	.710

R. H. and L. H., 16 Pitch, V Thread

CNK-51	1"	2 $\frac{1}{4}$ "	$\frac{5}{8}$ "	1 $\frac{3}{16}$ "	.710
CNK-53	3"	4 $\frac{1}{4}$ "	$\frac{5}{8}$ "	1 $\frac{3}{16}$ "	.710
CNK-56	6"	7 $\frac{1}{4}$ "	$\frac{5}{8}$ "	1 $\frac{3}{16}$ "	.710

### INGERSOLL-RAND

R. H. and L. H., 16 Pitch, S.A.E. Thread

Cat No. R.H.-L.H.†	Shank Length	Overall Length	Shank Diameter	Head Diameter	Thread Diameter
INK-91	1"	2 $\frac{1}{4}$ "	$\frac{9}{16}$ "	1 $\frac{3}{16}$ "	.703
INK-93	3"	4 $\frac{1}{4}$ "	$\frac{9}{16}$ "	1 $\frac{3}{16}$ "	.703
INK-96	6"	7 $\frac{1}{4}$ "	$\frac{9}{16}$ "	1 $\frac{3}{16}$ "	.703

R. H. and L. H., 16 Pitch, S.A.E. Thread

INK-51	1"	2 $\frac{1}{4}$ "	$\frac{5}{8}$ "	1 $\frac{3}{16}$ "	.703
INK-53	3"	4 $\frac{1}{4}$ "	$\frac{5}{8}$ "	1 $\frac{3}{16}$ "	.703
INK-56	6"	7 $\frac{1}{4}$ "	$\frac{5}{8}$ "	1 $\frac{3}{16}$ "	.703

† R. H. or L. H. should be used to designate Right Hand or Left Hand Thread.

### SOCKET SHANKS

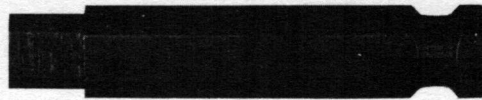
can be furnished in any sizes required



# DETROIT TOOL & FORGE CO.

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DETROIT, MICHIGAN

## NUT SETTER SHANKS



Made for use with Black & Decker, United States Electric Tool, Cincinnati Electric Tool, and Chicago Pneumatic Tool, *electric nut setters*.

Cat. No.	Shank Length	Length Overall	Hex Drive	Socket End
NS-727	2"	3 $\frac{1}{4}$ "	$\frac{7}{16}$ "	$\frac{7}{16}$ "
NS-747	4"	5 $\frac{1}{4}$ "	$\frac{7}{16}$ "	$\frac{7}{16}$ "
NS-767	6"	7 $\frac{1}{4}$ "	$\frac{7}{16}$ "	$\frac{7}{16}$ "
NS-527	2"	3 $\frac{1}{4}$ "	$\frac{7}{16}$ "	$\frac{5}{8}$ "
NS-547	4"	5 $\frac{1}{4}$ "	$\frac{7}{16}$ "	$\frac{5}{8}$ "
NS-567	6"	7 $\frac{1}{4}$ "	$\frac{7}{16}$ "	$\frac{5}{8}$ "
NS-525	2"	3 $\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{5}{8}$ "
NS-545	4"	5 $\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{5}{8}$ "
NS-565	6"	7 $\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{5}{8}$ "
NS-925	2"	3 $\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{9}{16}$ "
NS-927	2"	3 $\frac{1}{4}$ "	$\frac{7}{16}$ "	$\frac{9}{16}$ "
NS-947	4"	5 $\frac{1}{4}$ "	$\frac{7}{16}$ "	$\frac{9}{16}$ "
NS-967	6"	7 $\frac{1}{4}$ "	$\frac{7}{16}$ "	$\frac{9}{16}$ "

We will be very glad to receive your specifications for special shanks. We can take care of you.



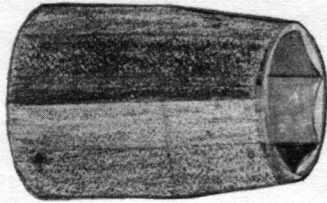
# DETROIT TOOL & FORGE CO.

656 SMITH AVENUE  
DETROIT, MICHIGAN

## SOCKETS

FOR SQUARE SHANKS

### HEXAGON SOCKETS



Chrome Nickel Steel, heat treated. Designed for efficiency and service.

Made in all standard sizes to fit handles as shown in table below.

#### $\frac{3}{8}$ Square Handle Broaching

Catalog Number	DIMENSIONS IN INCHES				
	Hexagon Opening	Diameter Socket End	Diameter Handle End	Socket Length	Handle Opening
CS-312	$\frac{3}{8}$ "	.530	$\frac{11}{16}$ "	$1\frac{1}{2}$ "	$\frac{3}{8}$ "
CS-314	$\frac{7}{16}$ "	.609	$\frac{11}{16}$ "	$1\frac{1}{2}$ "	$\frac{3}{8}$ "
CS-316	$\frac{1}{2}$ "	.703	$\frac{3}{4}$ "	$1\frac{1}{2}$ "	$\frac{3}{8}$ "
CS-318	$\frac{9}{16}$ "	.781	$\frac{13}{16}$ "	$1\frac{1}{2}$ "	$\frac{3}{8}$ "
CS-320	$\frac{5}{8}$ "	.859	$\frac{15}{16}$ "	$1\frac{1}{2}$ "	$\frac{3}{8}$ "

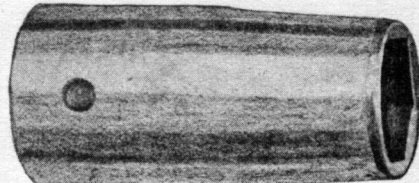
#### $\frac{1}{2}$ Square Handle Broaching

CS-414	$\frac{7}{16}$ "	.609	$\frac{15}{16}$ "	$1\frac{1}{2}$ "	$1\frac{1}{2}$ "
CS-416	$\frac{1}{2}$ "	.731	$\frac{15}{16}$ "	$1\frac{1}{2}$ "	$1\frac{1}{2}$ "
CS-418	$\frac{9}{16}$ "	.796	$\frac{15}{16}$ "	$1\frac{1}{2}$ "	$1\frac{1}{2}$ "
CS-419	$\frac{1}{2}$ "	.847	1"	$1\frac{1}{2}$ "	$1\frac{1}{2}$ "
CS-420	$\frac{5}{8}$ "	.873	1"	$1\frac{1}{2}$ "	$1\frac{1}{2}$ "
CS-422	$\frac{11}{16}$ "	.952	$1\frac{1}{16}$ "	$1\frac{1}{2}$ "	$1\frac{1}{2}$ "
CS-424	$\frac{3}{4}$ "	1.033	$1\frac{1}{8}$ "	$1\frac{1}{2}$ "	$1\frac{1}{2}$ "
CS-425	$\frac{25}{32}$ "	1.100	$1\frac{3}{16}$ "	$1\frac{1}{2}$ "	$1\frac{1}{2}$ "
CS-426	$\frac{13}{16}$ "	1.134	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	$1\frac{1}{2}$ "
CS-428	$\frac{7}{8}$ "	1.225	$1\frac{5}{16}$ "	$1\frac{1}{2}$ "	$1\frac{1}{2}$ "
CS-430	$\frac{15}{16}$ "	1.312	$1\frac{7}{16}$ "	$1\frac{3}{4}$ "	$1\frac{1}{2}$ "
CS-431	$\frac{31}{32}$ "	1.375	$1\frac{7}{16}$ "	$1\frac{3}{4}$ "	$1\frac{1}{2}$ "
CS-432	1"	1.406	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "	$1\frac{1}{2}$ "
CS-434	$1\frac{1}{16}$ "	1.500	$1\frac{5}{8}$ "	2"	$1\frac{1}{2}$ "

#### $\frac{5}{8}$ Square Handle Broaching

CS-530	$\frac{15}{16}$ "	1.312	$1\frac{7}{16}$ "	$1\frac{3}{4}$ "	$\frac{5}{8}$ "
CS-531	$\frac{31}{32}$ "	1.375	$1\frac{7}{16}$ "	$1\frac{3}{4}$ "	$\frac{5}{8}$ "
CS-532	1"	1.406	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "	$\frac{5}{8}$ "
CS-534	$1\frac{1}{16}$ "	1.500	$1\frac{9}{16}$ "	2"	$\frac{5}{8}$ "
CS-536	$1\frac{1}{8}$ "	1.593	$1\frac{11}{16}$ "	2"	$\frac{5}{8}$ "
CS-538	$1\frac{3}{16}$ "	1.655	$1\frac{3}{4}$ "	2"	$\frac{5}{8}$ "
CS-540	$1\frac{1}{4}$ "	1.718	$1\frac{13}{16}$ "	2"	$\frac{5}{8}$ "
CS-544	$1\frac{3}{8}$ "	1.906	2"	$2\frac{1}{4}$ "	$\frac{5}{8}$ "
CS-546	$1\frac{7}{16}$ "	1.968	$2\frac{1}{16}$ "	$2\frac{1}{4}$ "	$\frac{5}{8}$ "
CS-548	$1\frac{1}{2}$ "	2.031	$2\frac{3}{8}$ "	$2\frac{3}{8}$ "	$\frac{5}{8}$ "

### EXTRA DEPTH HEXAGON SOCKETS



#### $\frac{1}{2}$ Square Handle Broaching

Catalog Number	DIMENSIONS IN INCHES				
	Hexagon Opening	Diameter Socket End	Diameter Handle End	Socket Length	Handle Opening
CS-1416	$\frac{1}{2}$ "	$\frac{3}{4}$ "	1"	$3\frac{1}{4}$ "	$\frac{1}{2}$ "
CS-1418	$\frac{9}{16}$ "	$\frac{13}{16}$ "	1"	$3\frac{1}{4}$ "	$\frac{1}{2}$ "
CS-1420	$\frac{5}{8}$ "	$\frac{7}{8}$ "	1"	$3\frac{1}{4}$ "	$\frac{1}{2}$ "
CS-1422	$\frac{11}{16}$ "	$1\frac{1}{16}$ "	1"	$3\frac{1}{4}$ "	$\frac{1}{2}$ "
CS-1424	$\frac{3}{4}$ "	$1\frac{1}{8}$ "	1"	$3\frac{1}{4}$ "	$\frac{1}{2}$ "
CS-1428	$\frac{7}{8}$ "	$1\frac{1}{4}$ "	1"	$3\frac{1}{4}$ "	$\frac{1}{2}$ "
CS-1430	$\frac{15}{16}$ "	$1\frac{3}{8}$ "	1"	$3\frac{1}{4}$ "	$\frac{1}{2}$ "
CS-1432	1"	$1\frac{1}{2}$ "	$1\frac{1}{4}$ "	$3\frac{1}{4}$ "	$\frac{1}{2}$ "

#### $\frac{5}{8}$ Square Handle Broaching

CS-1530	$\frac{15}{16}$ "	$1\frac{3}{8}$ "	$1\frac{3}{8}$ "	$3\frac{1}{2}$ "	$\frac{5}{8}$ "
CS-1534	$1\frac{1}{16}$ "	$1\frac{1}{2}$ "	$1\frac{1}{2}$ "	$3\frac{1}{2}$ "	$\frac{5}{8}$ "
CS-1536	$1\frac{1}{8}$ "	$1\frac{5}{8}$ "	$1\frac{5}{8}$ "	$3\frac{1}{2}$ "	$\frac{5}{8}$ "



### SQUARE SOCKETS

Chrome Nickel Steel, heat treated. Small for greater accessibility, yet strong and durable.

Made in all standard sizes and to fit handles as shown in table below.

#### $\frac{1}{2}$ Square Handle Broaching

Catalog Number	DIMENSIONS IN INCHES				
	Square Opening	Diameter Socket End	Diameter Handle End	Socket Length	Handle Opening
CSS-412	$\frac{3}{8}$ "	.671	$\frac{15}{16}$ "	$1\frac{1}{2}$ "	$\frac{1}{2}$ "
CSS-414	$\frac{7}{16}$ "	.765	$\frac{15}{16}$ "	$1\frac{1}{2}$ "	$\frac{1}{2}$ "
CSS-416	$\frac{1}{2}$ "	.875	$\frac{15}{16}$ "	$1\frac{1}{2}$ "	$\frac{1}{2}$ "
CSS-418	$\frac{9}{16}$ "	1.032	$1\frac{1}{8}$ "	$1\frac{1}{2}$ "	$\frac{1}{2}$ "
CSS-420	$\frac{5}{8}$ "	1.062	$1\frac{1}{8}$ "	$1\frac{1}{2}$ "	$\frac{1}{2}$ "
CSS-422	$\frac{11}{16}$ "	1.156	$1\frac{1}{4}$ "	$1\frac{5}{8}$ "	$\frac{1}{2}$ "
CSS-424	$\frac{3}{4}$ "	1.250	$1\frac{1}{8}$ "	$1\frac{5}{8}$ "	$\frac{1}{2}$ "
CSS-426	$\frac{13}{16}$ "	1.375	$1\frac{3}{16}$ "	$1\frac{5}{8}$ "	$\frac{1}{2}$ "
CSS-428	$\frac{7}{8}$ "	1.562	$1\frac{1}{16}$ "	$1\frac{5}{8}$ "	$\frac{1}{2}$ "
CSS-432	1"	1.656	$1\frac{3}{4}$ "	$1\frac{3}{4}$ "	$\frac{1}{2}$ "

#### $\frac{5}{8}$ Square Handle Broaching

CSS-532	1"	1.656	$1\frac{3}{4}$ "	$1\frac{3}{4}$ "	$\frac{5}{8}$ "
CSS-534	$1\frac{1}{16}$ "	1.844	2"	$1\frac{3}{4}$ "	$\frac{5}{8}$ "
CSS-544	$1\frac{1}{4}$ "	2.109	$2\frac{1}{4}$ "	2"	$\frac{5}{8}$ "



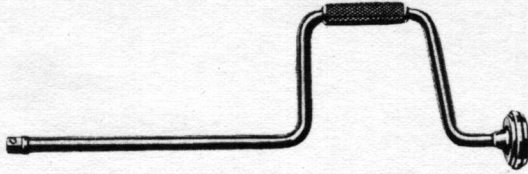
# DETROIT TOOL & FORGE CO.

656 SMITH AVENUE  
DETROIT, MICHIGAN

## HANDLES

WITH SQUARE SHANK ENDS

### Speeder Handles With Knob and Center Grip



Strong, heavy construction. Built with all metal grip or knob which will not wear through or break.

The extra large, heavy brace handles are equipped with a specially treated, specially designed metal and wood combination grip or knob to keep down weight.

#### $\frac{7}{16}$ " Wire Diameter $\frac{3}{8}$ " Square Handle Broaching

Catalog Number	Overall Length	Shank Length	Sweep	Diameter Stock
CB-436	14"	6"	4"	$\frac{7}{16}$ "
CB-4312	20"	12"	4"	$\frac{7}{16}$ "
CB-4316	24"	16"	4"	$\frac{7}{16}$ "

#### $\frac{9}{16}$ " Wire Diameter $\frac{1}{2}$ " Square Handle Broaching

Catalog Number	Overall Length	Shank Length	Sweep	Diameter Stock
CB-543	13"	3"	5"	$\frac{9}{16}$ "
CB-546	16"	6"	5"	$\frac{9}{16}$ "
CB-549	19"	9"	5"	$\frac{9}{16}$ "
CB-5412	22"	12"	5"	$\frac{9}{16}$ "
CB-5416	26"	16"	5"	$\frac{9}{16}$ "
CB-5420	30"	20"	5"	$\frac{9}{16}$ "

#### $\frac{5}{8}$ " Wire Diameter $\frac{5}{8}$ " Square Handle Broaching

Catalog Number	Overall Length	Shank Length	Sweep	Diameter Stock
CB-656	17"	6"	6"	$\frac{5}{8}$ "
CB-6512	23"	12"	6"	$\frac{5}{8}$ "
CB-6516	27"	16"	6"	$\frac{5}{8}$ "

### OFFSET HANDLES



Catalog Number	Shank End	Handle Length	Clearance Under Handle	Diameter Stock
CH-412	$\frac{1}{2}$ " sq.	12"	$1\frac{1}{4}$ "	$\frac{9}{16}$ "
CH-512	$\frac{5}{8}$ " sq.	12"	$1\frac{1}{4}$ "	$\frac{5}{8}$ "

### Tee Handles With Wood Handle Grips



Built for strength and for heavy work. A good, constant grip is the feature of this design.

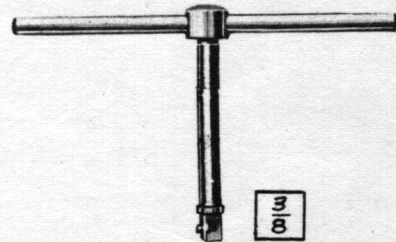
#### $\frac{9}{16}$ " Wire Diameter $\frac{1}{2}$ " Square Handle Broaching

Catalog Number	Shank Length	Shank Diameter	Handle Length	Handle Diameter	Wood File Handle Length
CW-46	6"	$\frac{9}{16}$ "	8"	$\frac{7}{16}$ "	10"
CW-412	12"	$\frac{9}{16}$ "	8"	$\frac{7}{16}$ "	10"
CW-418	18"	$\frac{9}{16}$ "	8"	$\frac{7}{16}$ "	10"

#### $\frac{5}{8}$ " Wire Diameter $\frac{5}{8}$ " Square Handle Broaching

Catalog Number	Shank Length	Shank Diameter	Handle Length	Handle Diameter	Wood File Handle Length
CW-56	6"	$\frac{5}{8}$ "	8"	$\frac{7}{16}$ "	10"
CW-512	12"	$\frac{5}{8}$ "	8"	$\frac{7}{16}$ "	10"
CW-518	18"	$\frac{5}{8}$ "	8"	$\frac{7}{16}$ "	10"

### METAL HANDLE TEE WRENCH



#### $\frac{3}{8}$ " Handle Diameter $\frac{3}{8}$ " Square Handle Broaching

Catalog Number	Shank Length	Shank Diameter	Handle Length	Handle Diameter
CT-36	6"	$\frac{7}{16}$ "	8"	$\frac{3}{8}$ "
CT-312	12"	$\frac{7}{16}$ "	8"	$\frac{3}{8}$ "

#### $\frac{1}{2}$ " Handle Diameter $\frac{1}{2}$ " Square Handle Broaching

Catalog Number	Shank Length	Shank Diameter	Handle Length	Handle Diameter
CT-46	6"	$\frac{9}{16}$ "	10"	$\frac{1}{2}$ "
CT-412	12"	$\frac{9}{16}$ "	10"	$\frac{1}{2}$ "
CT-418	18"	$\frac{9}{16}$ "	10"	$\frac{1}{2}$ "

#### $\frac{5}{8}$ " Handle Diameter $\frac{5}{8}$ " Square Handle Broaching

Catalog Number	Shank Length	Shank Diameter	Handle Length	Handle Diameter
CT-56	6"	$\frac{5}{8}$ "	12"	$\frac{9}{16}$ "
CT-512	12"	$\frac{5}{8}$ "	12"	$\frac{9}{16}$ "
CT-518	18"	$\frac{5}{8}$ "	12"	$\frac{9}{16}$ "

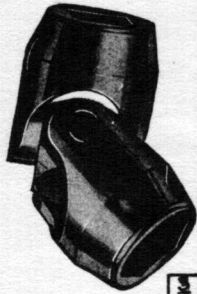


# DETROIT TOOL & FORGE CO.

656 SMITH AVENUE  
DETROIT, MICHIGAN

## SHANKS

EQUIPPED WITH SQUARE SHANK ENDS



### FLEXIBLE SOCKETS

The use of these Flexible Sockets in connection with regular handles permits working at 90° angles.

Chrome Nickel Steel, heat treated. Built thin, for hard-to-reach places, yet sturdy and strong.



#### Square Handle Broaching

Catalog Number	Socket Opening	Overall Length	Diameter Socket End	Shank Opening
CF-312	3/8"	1 9/16"	.530	3/8"
CF-314	1/2"	1 11/16"	.609	3/8"
CF-316	5/8"	1 13/16"	.703	3/8"
CF-318	3/4"	1 5/8"	.781	3/8"
CF-320	7/8"	1 3/4"	.859	3/8"



#### 1/2" Square Handle Broaching

CF-416	1/2"	2 1/2"	.718	1/2"
CF-418	5/8"	2 1/2"	.796	1/2"
CF-420	3/4"	2 1/2"	.890	1/2"
CF-422	7/8"	2 3/8"	1.000	1/2"
CF-424	1"	2 3/8"	1.031	1/2"
CF-428	1 1/8"	2 1/2"	1.225	1/2"
CF-430	1 1/4"	2 1/8"	1.312	1/2"

### NUT SETTER SHANKS



Chrome Nickel Steel — Oil Hardened.

#### 7/16 Hex Drive

Catalog Number	Shank Length	Overall Length	Shank Diameter	Socket End
N-321	1 3/8"	2 3/4"	1/2"	3/8"
N-323	3 1/8"	5"	1/2"	3/8"
N-326	6 1/8"	8"	1/2"	3/8"
N-3210	10 1/8"	12"	1/2"	3/8"
N-3216	16 1/8"	18"	1/2"	3/8"

#### 7/16 Hex Drive

N-4111	1"	2 3/4"	1 1/8"	1/2"
N-4113	3 1/4"	5"	1 1/8"	1/2"
N-4116	6 1/4"	8"	1 1/8"	1/2"
N-41110	10 1/4"	12"	1 1/8"	1/2"
N-41116	16 1/4"	18"	1 1/8"	1/2"

#### 5/8 Hex Drive

Catalog Number	Shank Length	Overall Length	Shank Diameter	Socket End
N-43	5/8"	3"	3/4"	1/2"
N-432	2 5/8"	5"	3/4"	1/2"
N-435	5 5/8"	8"	3/4"	1/2"
N-439	9 5/8"	12"	3/4"	1/2"
N-4315	15 5/8"	18"	3/4"	1/2"

### MORSE TAPER SHANKS



All Socket Ends are fitted with special spring actuated pins to keep the socket firm.

Chrome Nickel Steel — Oil Hardened.

Catalog Number	Number Taper	Shank Length	Overall Length	Taper Length	Socket End
C-411	1"	1"	4"	2 3/16"	1/2"
C-413	1"	3"	6"	2 3/16"	1/2"

C-51	1"	3/4"	4"	2 9/16"	5/8"
C-512	1"	2 3/4"	6"	2 9/16"	5/8"
C-515	1"	5 3/4"	9"	2 9/16"	5/8"
C-518	1"	8 3/4"	12"	2 9/16"	5/8"
C-5114	1"	14 3/4"	18"	2 9/16"	5/8"

C-52	2"	1 1/4"	4"	3 1/16"	1 1/2"
C-522	2"	2 1/4"	6"	3 1/16"	1 1/2"
C-525	2"	5 1/4"	9"	3 1/16"	1 1/2"
C-528	2"	8 1/4"	12"	3 1/16"	1 1/2"
C-5214	2"	14 1/4"	18"	3 1/16"	1 1/2"

C-722	2"	2"	6"	3 1/16"	5/8"
C-725	2"	5"	9"	3 1/16"	5/8"
C-728	2"	8"	12"	3 1/16"	5/8"
C-7214	2"	14"	18"	3 1/16"	5/8"

C-731	3"	1 5/8"	6"	3 3/4"	5/8"
C-734	3"	4 3/8"	9"	3 3/4"	5/8"
C-737	3"	7 3/8"	12"	3 3/4"	5/8"
C-7313	3"	13 3/8"	18"	3 3/4"	5/8"



# DETROIT TOOL & FORGE CO.

656 SMITH AVENUE  
DETROIT, MICHIGAN

## PRICE LIST

	Catalog Number	Price
Page 1	HR-24.....	7.50
	HR-26.....	7.50
	HR-28.....	7.50
	HR-30.....	7.50
	HR-32.....	7.50
	HSR-20.....	7.50
	HSR-22.....	7.50
	HSR-24.....	7.50
	PA-7.....	.60
	PA-9.....	.60
	PA-5.....	.60
	SA-214.....	.60
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	SA-218.....	.75
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	SA-222.....	.80
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	SA-326.....	.90
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	MR-16.....	3.00
	MR-18.....	3.00
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	MR-22.....	3.00
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	MSR-20.....	3.00
	SR-12.....	.75
	SR-14.....	.75
	SR-16.....	.75
	SR-18.....	.75
	SR-20.....	.75
	SSR-12.....	.75
	SSR-14.....	.75
	SSR-16.....	.75

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DIS-712.....	.50
DIS-714.....	.50
DIS-716.....	.50
DIS-718.....	.50
DIS-719.....	.50
DIS-720.....	.50
DIS-910.....	.50
DIS-912.....	.50
DIS-914.....	.50
DIS-916.....	.50
DIS-918.....	.50
DIS-919.....	.50
DIS-920.....	.50

	Catalog Number	Price
	DIS-516.....	.50
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	DIS-519.....	.50
	DIS-520.....	.50
	DIS-522.....	.55
	DIS-524.....	.55
	DIS-525.....	.55
	DIS-526.....	.60
	DIS-528.....	.65
	DIS-530.....	.70
	DIS-531.....	.75
	DIS-532.....	.75
	DIS-534.....	.85
	DIS-536.....	.90
	DIS-540.....	1.00
	DISS-712.....	.50
	DISS-714.....	.50
	DISS-716.....	.50
	DISS-718.....	.50
	DISS-719.....	.55
	DISS-720.....	.55
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	DISS-528.....	.75
	DISS-530.....	.85
	DISS-531.....	.90
	DISS-532.....	.90
	DISS-534.....	1.00
	DISS-536.....	1.20
	DISS-540.....	1.40

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DCS-312.....	.50
DCS-314.....	.50
DCS-316.....	.50
DCS-318.....	.50
DCS-320.....	.50
DCS-414.....	.50
DCS-416.....	.50
DCS-418.....	.50
DCS-419.....	.50
DCS-420.....	.50
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DCS-426.....	.60
DCS-428.....	.65
DCS-430.....	.70
DCS-431.....	.75
DCS-432.....	.80
DCS-434.....	.85



# DETROIT TOOL & FORGE CO.

656 SMITH AVENUE  
DETROIT, MICHIGAN

## PRICE LIST

Catalog Number	Price
DCS-530.....	\$ .75
DCS-531.....	.75
DCS-532.....	.75
DCS-534.....	.90
DCS-536.....	1.05
DCS-538.....	1.25
DCS-540.....	1.25
DCS-544.....	1.25
DCS-546.....	1.35
DCS-548.....	1.50
DCSS-412.....	.50
DCSS-414.....	.50
DCSS-416.....	.50
DCSS-418.....	.50
DCSS-420.....	.60
DCSS-422.....	.60
DCSS-424.....	.65
DCSS-426.....	.70
DCSS-428.....	.75
DCSS-432.....	.90
DCSS-532.....	.90
DCSS-534.....	1.00
DCSS-544.....	1.50
DCS-1416.....	.90
DCS-1418.....	.90
DCS-1420.....	.90
DCS-1422.....	1.05
DCS-1424.....	1.20
DCS-1428.....	1.35
DCS-1430.....	1.50
DCS-1432.....	1.70
DCS-1530.....	1.50
DCS-1534.....	2.00
DCS-1536.....	2.00

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IS-712.....	.40
IS-714.....	.40
IS-716.....	.40
IS-718.....	.40
IS-719.....	.40
IS-720.....	.40
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IS-912.....	.40
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IS-522.....	.45
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Catalog Number	Price
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IS-536.....	.70
IS-540.....	.75
ISS-712.....	.40
ISS-714.....	.40
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ISS-718.....	.40
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ISS-720.....	.45
ISS-910.....	.45
ISS-912.....	.45
ISS-914.....	.45
ISS-916.....	.45
ISS-918.....	.45
ISS-919.....	.50
ISS-920.....	.50
ISS-522.....	\$ .50
ISS-524.....	.50
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ISS-528.....	.55
ISS-530.....	.65
ISS-531.....	.70
ISS-532.....	.70
ISS-534.....	.75
ISS-536.....	.85
ISS-540.....	.90

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IFS-912.....	2.25
IFS-914.....	2.25
IFS-916.....	2.25
IFS-918.....	2.25
IFS-920.....	2.25
IFS-522.....	\$2.65
IFS-524.....	2.65
IFS-526.....	3.00
SDS-912.....	1.00
SDS-530.....	1.00
IS-1916.....	1.15
IS-1918.....	1.15
IS-1920.....	1.15
IS-1522.....	1.15
IS-1524.....	1.20
IS-1526.....	1.25
IS-1528.....	1.40
IS-1530.....	1.50
IS-1532.....	1.70
IS-1534.....	2.00
IS-1536.....	2.00



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Catalog Number	Price
AS-16.....	\$1.00
KS-16.....	1.10

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IB-476.....	1.75
IB-4712.....	1.85
IB-4716.....	2.00
IB-593.....	1.85
IB-596.....	1.90
IB-599.....	1.95
IB-5912.....	2.00
IB-5916.....	2.20
IB-5920.....	2.30
IB-656.....	2.00
IB-6512.....	2.10
IB-6516.....	2.30
OH-912.....	.75
OH-512.....	.75
WT-96.....	1.40
WT-912.....	1.55
WT-918.....	1.80
WT-56.....	1.45
WT-512.....	1.65
WT-518.....	1.95
IT-76.....	1.00
IT-712.....	1.10
IT-96.....	1.05
IT-912.....	1.25
IT-918.....	1.65
IT-56.....	1.00
IT-512.....	1.10
IT-518.....	1.35

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911.....	1.90
913.....	1.90
916.....	1.90
921.....	1.90
923.....	2.05
926.....	2.50
931.....	3.00
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936.....	3.50
511.....	1.90
513.....	1.90
516.....	1.90
521.....	1.90
523.....	2.15
526.....	2.25
531.....	3.00
533.....	3.25
536.....	3.50

Catalog Number	Price
9B-3.....	2.00
9B-5.....	2.50
9B-7.....	2.50
9B-10.....	2.75
9B-18.....	3.00

5B-3.....	2.00
5B-5.....	2.50
5B-7.....	2.50
5B-10.....	2.75
5B-18.....	3.00

CNK-91.....	2.00
CNK-93.....	2.50
CNK-96.....	3.00
CNK-51.....	2.50
CNK-53.....	2.75
CNK-56.....	3.00

INK-91.....	2.50
INK-93.....	2.75
INK-96.....	3.00
INK-51.....	2.00
INK-53.....	2.50
INK-56.....	3.00

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NS-727.....	.50
NS-747.....	.55
NS-767.....	.65
NS-527.....	.65
NS-547.....	.70
NS-567.....	.80
NS-525.....	.50
NS-545.....	.55
NS-565.....	.65
NS-925.....	.50
NS-927.....	.50
NS-947.....	.55
NS-967.....	.65

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CS-312.....	.50
CS-314.....	.50
CS-316.....	.50
CS-318.....	.50
CS-320.....	.50
CS-414.....	.50
CS-416.....	.50
CS-418.....	.50
CS-419.....	.50
CS-420.....	.50
CS-422.....	.55
CS-424.....	.55
CS-425.....	.55
CS-426.....	.60
CS-428.....	.65
CS-430.....	.70
CS-431.....	.75
CS-432.....	.80
CS-434.....	.85



# DETROIT TOOL & FORGE CO.

656 SMITH AVENUE  
DETROIT, MICHIGAN

## PRICE LIST

Catalog Number	Price
CS-530.....	\$ .75
CS-531.....	.75
CS-532.....	.75
CS-534.....	.90
CS-536.....	1.05
CS-538.....	1.25
CS-540.....	1.25
CS-544.....	1.25
CS-546.....	1.35
CS-548.....	1.50
CS-1416.....	.90
CS-1418.....	.90
CS-1420.....	.90
CS-1422.....	1.05
CS-1424.....	1.20
CS-1428.....	1.35
CS-1430.....	1.50
CS-1432.....	1.70
CS-1530.....	1.50
CS-1534.....	2.00
CS-1536.....	2.00
CSS-412.....	.50
CSS-414.....	.50
CSS-416.....	.50
CSS-418.....	.50
CSS-420.....	.60
CSS-422.....	.60
CSS-424.....	.65
CSS-426.....	.70
CSS-428.....	.75
CSS-432.....	.90
CSS-532.....	.90
CSS-534.....	1.00
CSS-544.....	1.50

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CB-436.....	2.00
CB-4312.....	2.10
CB-4316.....	2.25
CB-543.....	2.10
CB-546.....	2.15
CB-549.....	2.20
CB-5412.....	2.25
CB-5416.....	2.45
CB-5420.....	2.60
CB-656.....	2.25
CB-6512.....	2.35
CB-6516.....	2.55
CH-412.....	1.10
CH-512.....	1.20
CW-46.....	1.65
CW-412.....	1.70
CW-418.....	1.95
CW-56.....	1.70
CW-512.....	1.80
CW-518.....	2.15

Catalog Number	Price
CT-36.....	1.25
CT-312.....	1.35
CT-46.....	\$1.45
CT-412.....	1.65
CT-418.....	1.90
CT-56.....	1.55
CT-512.....	1.75
CT-518.....	2.15

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CF-312.....	2.75
CF-314.....	2.75
CF-316.....	2.75
CF-318.....	2.75
CF-320.....	2.75
CF-416.....	\$3.00
CF-418.....	3.00
CF-420.....	3.00
CF-422.....	3.00
CF-424.....	3.00
CF-428.....	3.00
CF-430.....	3.00
N-321.....	1.10
N-323.....	1.20
N-326.....	1.30
N-3210.....	1.40
N-3216.....	1.50
N-4111.....	1.10
N-4113.....	1.15
N-4116.....	1.25
N-41110.....	1.40
N-41116.....	1.75
N-43.....	1.40
N-432.....	1.50
N-435.....	1.60
N-439.....	2.00
N-4315.....	2.00

C-411.....	\$2.00
C-413.....	2.50
C-51.....	2.50
C-512.....	2.50
C-515.....	2.50
C-518.....	2.50
C-5114.....	2.85
C-52.....	2.75
C-522.....	3.00
C-525.....	3.25
C-528.....	3.50
C-5214.....	3.85
C-722.....	3.00
C-725.....	3.20
C-728.....	3.50
C-7214.....	3.60
C-731.....	3.50
C-734.....	3.60
C-737.....	3.75
C-7313.....	3.95







